Approved for use through 11/30/2005. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Undertine Paperwork Reduction	Act of 1995, no persons are req	Application	a collection Number	of information	unless it displa 10/684	
1 7 2004 POWER OF A	TTODUCY	Filing Date			Oct. 14	
TO SOUTH		First Named	Inventor	-		
g and	•	Title		Met	Ernest L. Baker Method to Improve Per foration. Shaped Cha	
CORRESPONDEN INDICATIO	ICE ADDRESS	Art Unit		for	ation	Shaped Charge
INDICATION INDICATION	N FORM	Examiner Na				
		Attorney Docket Number				
		Attorney Do	Ket Maili	Del	0120	003-03
I hereby appoint:						
Practitioners associated wi	th the Customer Number:				١.	
OR						
X Practitioner(s) named below	w:					
	-					
	Name			Registra	tion Number	
	-					
Yale S. Fink			27,5			
Gregory F. W	lirzbicki		27,6	06		
					•	
as my/our attorney(s) or agent(s)	to prosecute the application	identified above,	and to trai	nsact all busi	ness in the U	nited States Patent and
Trademark Office connected there	ewith.					
Please recognize or change the c	orrespondence address for t	he above-identifi	ed applica	tion to:		
	·		• •			
The address associated	with the above-mentioned C	ustomer Number	:			
OR	ſ				_	
The address associated	with Customer Number:					
	·					
OR Simo as						
X Firm or Individual Name	Yale S. Fink	-10				
Address	· ·	.16				
Address	UNOCAL	10				
City	P.O. Box 760	IU	State		Zip	00000 7000
Country	Brea		3.0.0	CA		92822-7600
· · · · · · · · · · · · · · · · · · ·	US		Eav T	774 -	77 1000	
Telephone	715 577-2642		Fax	714 5	77-1230	

Date

| NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

| Total of ______ forms are submitted.

| This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the

SIGNATURE of Applicant or Assignee of Record

am the:

Name

Signature

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

Daniels

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

10/684,858

Oct. 14, 2003

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Filing Date

POWER OF ATTORNEY

Application Number

				L. Baker
Title		Meth	od to I	mprove Per- Shaped Charge
Art Unit		100.4		энарен спатуе
Examiner Na	ne			
Attorney Doc	ket Numb	er	0120	03-03
·				
L				
		_		
		Registration	n Number	
				
	27,60	16		·
n identified above,	and to tran	sact all busines	ss in the Ur	nited States Patent and
r the above-identifie	d applicat	ion to:		
O				
Customer Number				
		l l		
			·	
ıkle				-
nkle	State I		l 7in	
	State	CA	Zip	92822-7600
500			, ,	92822-7600
	State Fax	CA 714 577	, ,	92822-7600
500			, ,	92822-7600
2			, ,	92822-7600
500 12 FR 3.71.			, ,	92822-7600
FR 3.71. m PTO/SB/96)	Fax	714 577	, ,	92822-7600
500 12 FR 3.71.	Fax	714 577	, ,	92822-7600
FR 3.71. m PTO/SB/96)	Fax	714 577	, ,	92822-7600
FR 3.71. m PTO/SB/96)	Fax	714 577	, ,	92822-7600
FR 3.71. m PTO/SB/96)	Fax	714 577	7-1230	
FR 3.71. The PTO/SB/96) of Applicant or Ass	Fax	714 577 Record	7-1230	724 5097
FR 3.71. m PTO/SB/96)	Fax	714 577 Record	7-1230	724 5097
_	Art Unit Examiner Nar Attorney Doc	Art Unit Examiner Name Attorney Docket Numb 27,54 27,60 n identified above, and to tran	Registration 27,547 27,606 a identified above, and to transact all business the above-identified application to:	Registration Number 27,547 27,606 n identified above, and to transact all business in the United above-identified application to:

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/81 (09-03)

Approved for use through 11/30/2005, OMB 0651-0035

10/684,858

Oct. 14, 2003

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Application Number 10 /684 -858

Filing Date

POWER OF ATTORNEY

PE	and	4	First N	amed inventor		Ernest L.		
		NCE ADDRESS	Title		Meth	od to Impi	ove Per-	
1 2.1			Art Uni	t			ther charge	
7 2004	INDICATIO	IN FURIVI	Examir	er Name	· ·			
			Attorne	y Docket Numb	er	012003-	-03	
L barabb Zana	int							
I hereby appo	iint:	. [
		ith the Customer Number:				ŀ		
1-		Land Calcinot Italia	-					
OR		_						
X Practiti	oner(s) named belo	w:						
		Manage	- 1		5 11 7			
	•	Name			Registrati	on Number		
	Yale S. Fin	kle		27,54		<u></u>		
	Gregory F. 1			27,60				
	· <u>"</u>							
		to prosecute the application is	dentified a	bove, and to trar	sact all busine	ess in the United	States Patent and	
Trademark Of	fice connected ther	ewith.						
	-	correspondence address for the with the above-mentioned Cu					-	
OR		Г				1		
The	address associated	d with Customer Number:						
OR		<u> </u>						
	irm or ndividual Name	Yale S. Finkl	le					
Addres	s	UNOCAL						
Addres	s	P.O. Box 7600	0					
City		Brea		State	CA	Zip 92	822-7600	
Country	/	US			•			
Telepho	one	715 577-2642		Fax	714 57	7-1230		
Assig		e entire interest. See 37 CFR : R 3.73(b) is enclosed. (Form F SIGNATURE of A	PTO/SB/96		Record			
Name	John L.	Burba, III	4-p-11-04-11					
Signature	(/nex -	1 Bula 75				-		
Date	//i>la	103			Telephone	· Í		
NOTE: Sinnet:	monet all the inventa-	or assignees of record of the entire	o interest s	their representati				
forms if more th	restof all the inventors an one signature is re	or assignees of record of the entire quired, see below*.	e interest of	meir representativ	e(s) are required	a. Submit multiple		
*Total c	סז זכ	rms are submitted.						

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/81 (09-03) Approved for use through 11/30/2005, OMB 0651-0035 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Reperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Application Number 10/684,858 10/684,858 FEB 2 7 2004 POWER OF ATTORNEY and Filing Date Oct. 14, 2003 First Named Inventor Ernest L. Baker Method to Improve Per-foration Shaped Charge Title CORRESPONDENCE ADDRESS **Art Unit** RADENIE INDICATION FORM **Examiner Name Attorney Docket Number** 012003-03 I hereby appoint: Practitioners associated with the Customer Number:

OR										
X Prac	ctitioner(s) named bel	ow:								
		Name	Registration Number							
	Yale S. Fin		27,547							
	Gregory P.	Wirzbicki	27,60)6						
<u> </u>										
	as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.									
Please recognize or change the correspondence address for the above-identified application to: The address associated with the above-mentioned Customer Number:										
OR	The address associated with Customer Number:									
х	Firm or Individual Name	Yale S. Finkle			<u> </u>					
Add	ress	UNOCAL								
Add	ress	P.O. Box 7600								
City		Brea	State	CA	^{Zip} 92822-7600					
Cou	ntry	US								
Tele	phone	715 577-2642	Fax	714 577-1	230					
I am the: X Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)										
		SIGNATURE of Applican	t or Assignee of	Record						
Name	Robert	R. Davis								
Signature	Tober Cd	Javis			_					
Date		1/21/03		Telephone						
	atures of all the inventors e than one signature is re	s or assignees of record of the entire interest equired, see below*.	or their representativ	re(s) are required. Sul	pmit multiple					

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

forms are submitted.

___i *Total of

PTO/SB/81 (09-03)

Approved for use through 11/30/2005. OMB 0651-0035

Oct. 14, 2003

10/684,858

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number**

Filing Date

POWER OF ATTORNEY

THE and	1	First Named Inve	ntor	E	rnest	L. Baker
CORRESPONDE		Title		Method	to:	Improve Per- Shaped Charge
		Art Unit		- purac		Suaper Charge.
1 2 7 2004 ☐ INDICATIO	N FORIVI	Examiner Name				
g g		Attorney Docket	Number		0120	003-03
I hereby appoint:	ſ					
Practitioners associated wi	th the Customer Number				- 1	
	ui the oustomer Humber.				İ	
OR	•					
X Practitioner(s) named belo	w.					
	···					
:	Name			Registration	Number	
	· · · · · · · · · · · · · · · · · · ·		7,547			
	Yale S. Finkle Gregory F. Wirzbicki					
Gregory F. V	V1rzD1ck1	27,606				
		- 11				
as my/our attorney(s) or agent(s) Trademark Office connected there		dentified above, and	to transac	t all business	in the U	nited States Patent and
Trademark Chies Connected their		····				
Please recognize or change the c	with the above-mentioned C		ppiication	ю.		`
The address associated	with the above-mentioned Co	ustomer Number.		•		
OR						
The address seesistes	I with Customer Number:					
The address associated	with Customer Number.					
OR						
X Firm or Individual Name	Yale S. Fink	le				
Address	UNOCAL			-		
Address	P.O. Box 760	0				
City	Brea		ite	CA	Zip	92822-7600
Country	US					
Telephone	715 577-2642	Fa	× ·	714 577-	1230	
I am the:	· · · · · · · · · · · · · · · · · · ·	1-,-				-
X Applicant/Inventor.						
	e entire interest. See 37 CFR					
Statement under 37 CFI	R 3.73(b) is enclosed. (Form I					
	SIGNATURE of	Applicant or Assign	ee of Rec	ord		
Name / David	S. Wesson			*		
Signature /	~				_	
Date // 21/03			I.	Telephone	817.	3436845
7-7		Indiana di Citata	<u>!</u> _			
NOTE: Signatures of all the inventors forms if more than one signature is rec	or assignees of record of the entir quired, see below*.	e interest or their repre	sentative(s)	are required. S	upmit mul	tiple
	, ,					
*Total of fo						

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/81 (09-03)

Approved for use through 11/30/2005, OMB 0651-0035

10/684,858

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Application Number 10 /684 858

Filing Date

POWER OF ATTORNEY and			Oct. 14, 20		
		amed Inventor	Ernest L. B		
CORRESPONDENCE ADDRE	SS		Method to Impro foration Shap	ve Per- ed Charge	
3)	Art Un				
NDICATION FORM		ner Name	·		
	Attorno	ey Docket Numbe	012003-0	3	
I hereby appoint:	****				
I hereby appoint:					
Practitioners associated with the Customer Nu	ımber:				
OR					
X Practitioner(s) named below:					
Name			Registration Number		
Name					
Yale S. Finkle		27,547			
Gregory F. Wirzbicki		27,606			
as my/our attorney(s) or agent(s) to prosecute the ap	plication identified a	bove, and to trans	nct all business in the United St	tates Patent and	
Trademark Office connected therewith.		·			
The address associated with the above-me OR	ntioned Customer N	umber:	·		
OR The address associated with Customer Nu		lumber:			
OR The address associated with Customer Nu OR Firm or	mber:	lumber:			
OR The address associated with Customer Nu OR X Firm or Individual Name Yale S	mber:	lumber:			
OR The address associated with Customer Nu OR X Firm or Individual Name Yale S Address UNOCAL	mber:	umber:			
The address associated with Customer Nu OR X Firm or Individual Name Yale S Address UNOCAL Address P.O. Bo	mber:	State	CA Zip 928	22–7600	
OR The address associated with Customer Nu OR X Firm or Individual Name Yale S Address UNOCAL Address P.O. Be	mber:		CA Zip 9282	22-7600	
The address associated with Customer Nu OR X Firm or Individual Name Yale S Address UNOCAL Address P.O. Be City Brea Country US Telephone 715 57	mber: . Finkle ox 7600		CA Zip 9282	22–7600	
The address associated with Customer Nu OR X Firm or Individual Name Yale S Address UNOCAL Address P.O. Be City Brea Country US Telephone 715 57* I am the: X Applicant/Inventor. Assignee of record of the entire interest. Se Statement under 37 CFR 3.73(b) is enclose	mber: Finkle ox 7600 7-2642 se 37 CFR 3.71. sed. (Form PTO/SB/96)	State Fax	714 577-1230	22-7600	
The address associated with Customer Nu OR X Firm or Individual Name Yale S Address UNOCAL Address P.O. Be City Brea Country US Telephone 715 57* I am the: X Applicant/Inventor. Assignee of record of the entire interest. Se Statement under 37 CFR 3.73(b) is enclose	mber: Finkle 0x 7600 7-2642	State Fax	714 577-1230	22-7600	
The address associated with Customer Nu OR X Firm or Individual Name Yale S Address UNOCAL Address P.O. Be City Brea Country US Telephone 715 57 I am the: X Applicant/Inventor. Assignee of record of the entire interest. Se Statement under 37 CFR 3.73(b) is enclose SIGNA Name David C. Daniel	mber: Finkle ox 7600 7-2642 ee 37 CFR 3.71. ed. (Form PTO/SB/9) TURE of Applicant	State Fax	714 577-1230	22-7600	
The address associated with Customer Nu OR X Firm or Individual Name Yale S Address UNOCAL Address P.O. Be City Brea Country US Telephone 715 57 I am the: X Applicant/Inventor. Assignee of record of the entire interest. Se Statement under 37 CFR 3.73(b) is enclose SIGNA Name Payid C. Daniel Signature	mber: Finkle ox 7600 7-2642 ee 37 CFR 3.71. ed. (Form PTO/SB/9) TURE of Applicant	State Fax	714 577-1230		
The address associated with Customer Nu OR X Firm or Individual Name Yale S Address UNOCAL Address P.O. Be City Brea Country US Telephone 715 57 I am the: X Applicant/Inventor. Assignee of record of the entire interest. Se Statement under 37 CFR 3.73(b) is enclose SIGNA Name David C. Daniel	mber: Finkle ox 7600 7-2642 ee 37 CFR 3.71. ed. (Form PTO/SB/9) TURE of Applicant	State Fax	714 577-1230	22-7600	
The address associated with Customer Nu OR X Firm or Individual Name Yale S Address UNOCAL Address P.O. Be City Brea Country US Telephone 715 57 I am the: X Applicant/Inventor. Assignee of record of the entire interest. Se Statement under 37 CFR 3.73(b) is enclose SIGNA Name Payid C. Daniel Signature	mber: Finkle ox 7600 7-2642 ee 37 CFR 3.71. ed. (Form PTO/SB/9) TURE of Applicant	State Fax Fa	714 577-1230 cord Telephone 281-7		

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

FEE 29 ES		ate a	IIS Pate	ent and Tradema	rk Office: U.S. D	gh 07/31/2006. O	FCOMMERCE	
Under the Paperwork Reduction Ac	t of 1995, no person	ns are required to respo	nd to a collecti	on of informatio	n unless it conta	ins a valid OMB o	control number.	
War start			Attorney Doc	ket Number	012003			
ĎËCĿŘŘATION F DES		1 OK	irst Named	Inventor	Ernest	Ernest L. Baker		
PATENT AP		ı		COM	IPLETE IF KN			
(37 CFI			Application N	lumber	10/	10/684,858		
Declaration	Declaration	יח ת	Filing Date		0ct	. 14, 200	3	
Submitted OR With Initial	X Submitted Filing (sur	d after Initial rcharge	Art Unit					
Filing	(37 CFR required)		Examiner Na	me				
I hereby declare that:			• •				1	
Each inventor's residence, mai	ing address, an	d citizenship are a	is stated be	low next to t	heir name.			
I believe the inventor(s) named which a patent is sought on the	below to be the	e original and first led:	inventor(s)	of the subjec	t matter which	ch is claimed	and for	
			m_110 FF	1212/WITUI	TRCC			
USING A UNIQUE		OVE PERFORA				ORATOR		
ODING II GAIGGE								
4.		(Title of the	Invention)					
the specification of which		(Tille Of the	mvendon					
is attached hereto								
OR								
was filed on (MM/DD/Y	~ T10	0/14/2003	as Linit	od States Ar	onlication Nu	mber or PCT	International	
was filed on (MIM/DD/)	111)	7, 1, 2003	_ as Office	ed States Af	phoation (4d)		, , , , , , , , , , , , , , , , , , ,	
	84,858	and was amende				`	f applicable).	
I hereby state that I have revie amended by any amendment:	wed and under	stand the contents	of the abov	ve identified	specification	, including the	claims, as	
				4-1-774	J-6 1 0	7 000 4 66	including for	
I acknowledge the duty to di continuation-in-part application	ns, material info	ormation which be	came availa	able betwee	n the filing d	ate of the pri	or application	
and the national or PCT intern I hereby claim foreign priority	ational filing dat	te of the continuati	on-in-part a	application.	_			
inventor's or plant breeder's r	ionts certificate((s), or 365(a) of a	nv PCT inte	emational ap	plication who	ch designated	at least one	
country other than the United application for patent, inventor	States of Ameri	ica, listed below a der's rights certific	nd have als ate(s), or a	ny PCT inte	pelow, by che mational app	ecking the boo dication havin	g a filing date	
before that of the application of	n which priority	is claimed.						
Prior Foreign Application Number(s)	Country	Foreign Filin (MM/DD/Y)			ority aimed	Certified Col	oy Attached?	
		ا معطود دیری دانم د	.,	Γ	7			

[Page 1 of 2]

This collection of Information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

અ,≘ કહા

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

DECLARATION — Utility or Design Patent Application

									
Direct all correspondence to:	Custome	r Number:				OR X	Corresp	ondence address below	
Name	· · · · · · · · · · · · · · · · · · ·								
Yale S. F	inkle	÷,,	e tea lite	·					
Address UNOCAL			:						
P.O. Box	7600								
City				State				ZIP	
Brea						CA		92822-7600	
Country		Telephone	9			Fax			
US		714 57	7-264	2		714 577-	-1230		
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.									
NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this unsigned inventor									
Given Name				3		Family Name			
(first and middle [if any])	E	rnest L	·		- 1	or Surname	Bake	er	
Inventor's Signature			2844 - 1					Date	
Residence: City	State			Cour	try		Citize	nship	
Wantage	New Jer	sey			US	5		US	
Mailing Address	-	-		raya'.		<u> </u>			
86 Crigger Road				•					
City	State			*	ZIP		ŀ	Country	
Wantage	New Jer	sey ·	• • • •		07	7461		US	
NAME OF SECOND INVENTO	R:						n filed	for this unsigned inventor	
Given Name						amily Name			
(first and middle [if any])	D	avid C.			. .	or Surname	anie	1	
Inventor's Signature	0/1	ten	1					Date 11/22/03	
Residence: City	State		•	Cou	ntry		Citize	nship	
Missouri City	Texas		•		US			US	
Mailing Address	1								
3814 South Caulder	Way	:	· .						
City	State			•	ZIP		Cour	ntry	
Missouri City	Texas			-	77	459		บร	
Additional inventors or a legal re	epresentative are b	eing named or	the 2	_supplen	nental s	heet(s) PTO/SB/02/	A or O2LF	R attached hereto.	

PTO/SB/02A (08-03)
Approved for use through 07/31/2006. OMB 0651-0032
Expense and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	DECLARATION				ADDITIONAL INVENTOR(S) Supplemental Sheet Page 3 of 4				
									
Name of Addi	tional Joint Inventor, if any:		☐ A pe	tition h	as been filed for this	unsigned inv	entor		
G	iven Name (first and middle (if any)		Family Name or Surname						
	David S.		Wesson						
Inventor's Signature						Date			
Residence: City	Ft. Worth	State 5	rexas.	Cour	ntry US	Citizenship	US		
Mailing Address 6366 Elm Crest Ct.									
Mailing Address									
City	Ft. Worth	State	State Texas		Zip 76132	Country	US		
Name of Addi	tional Joint Inventor, if any:		A petition has been filed for this unsigned inventor						
G		Family Name or Surname							
		Bur	ba :	III					
Inventor's Signature			Date						
Residence: City	Boulder City	State	Nevada Country US			Citizenship US			
Mailing Address	803 Lake Hill Drive					-			
Mailing Address									
City	Boulder City	State	Nevada		Zip 89005	Country	US		
Name of Add	itional Joint Inventor, if any:		. A pe	tition h	nas been filed for this	unsigned in	ventor		
G	iven Name (first and middle (if any)		Family Name or Surname						
	Arthur S.		Dar	niel	s				
Inventor's Signature			Date						
Residence: City	Rockaway	State	New Je	sey	Country US		Citizenship U S		
Mailing Address	21 White Meadow Road								
Mailing Address									
City	Rockaway	State	New Je	rsey	Zip 07866	Country	US		

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/02A (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ADDITIONAL INVENTOR(S)

DECLARATION			Suppleme	iilai Si	lieer	Page of			
Name of Addi	tional Joint Inventor, if any:		A pe	tition h	as been filed for this	unsigned inv	entor		
	iven Name (first and middle (if any)		Family Nar				•		
	Robert R.			vis	,				
Inventor's Signature	NOWELL As					Date			
Residence: City	Joshua	Stat	e Texas	Cour	ntry US	Citizenship US			
Mailing Address	Mailing Address 1225 N. Main								
Mailing Address									
City	Joshua	Sta	ite Texas		Zip 76058	Country	US		
	tional Joint Inventor, if any:		□ Аре	etition h	nas been filed for this	unsigned inv	rentor		
G			Family Name or	Surname					
Inventor's Signature	Date	Date							
Residence: City		St	ate	e Country Citizenship					
Mailing Address							*		
Mailing Address				*					
City		St	ate		Zip	Country			
	itional Joint Inventor, if any:			etition l	has been filed for this	unsigned in	ventor		
G	iven Name (first and middle (if any)			Family Name or Surname					
Inventor's Signature			Date		-				
Residence: City		S	ate		Country		Citizenship		
Mailing Address									
Mailing Address					-				
City		s	ate Zip Country				···		

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE oder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

012003-03

Attorney Docket Number

First Named Inventor

Baker Ernest L. DESIGN COMPLETE IF KNOWN PATENT APPLICATION Application Number (37 CFR 1.63) 10/684,858 Filing Date Oct. 14, 2003 Declaration Declaration Submitted after Initial Submitted OR Art Unit Filing (surcharge With Initial (37 CFR 1.16 (e)) Filing **Examiner Name** required) I hereby declare that: Each inventor's residence, mailing address, and citizenship are as stated below next to their name. I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled: METHOD TO IMPROVE PERFORATING EFFECTIVENESS USING A UNIQUE MULTIPLE POINT INITIATED SHAPED CHARGE PERFORATOR 4000 (Title of the Invention) the specification of which is attached hereto OR X as United States Application Number or PCT International 10/14/2003 was filed on (MM/DD/YYYY) and was amended on (MM/DD/YYYY) (if applicable). Application Number 10/684,858 I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed. Certified Copy Attached? Foreign Filing Date: **Priority Prior Foreign Application** Not Claimed Yes Country (MM/DD/YYYY) Number(s)

ARATION FOR UTILITY OR

[Page 1 of 2] This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

DECLARATION — Utility or Design Patent Application

Direct all correspondence to:	Custome	r Number:				OR X	Corresp	ondence address below	
Name									
Yale S. F.	inkle	+, . j., .							
Address UNOCAL			*						
P.O. Box	7600								
City				State				ZIP	
Brea		*				CA		92822-7600	
Country	-	Telephone				Fax			
пе		714 577-2	264	2		714 577-	-1230		
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.									
NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this unsigned inventor									
Given Name Family Name									
(first and middle [if any]) Ernest L. or Surname Baker							er		
Inventor's Signature ImpA 7 MM 12/22/03									
000									
Residence: City	*		. شد	Coun	" y US	. 1	Onizo.	US	
Wantage	New Jer			<u> </u>		·			
Mailing Address		•	٠	-					
.86 Crigger Road		•		1.39			-		
City	State			·	ZIP		Т	Country	
Wantage	New Jer	sev		·		7461	ļ	υs	
wantage	New Do-								
NAME OF SECOND INVENTO	R:						en filed	for this unsigned inventor	
Given Name						Family Name or Surname _			
(first and middle [if any])	D	avid C.				Di Sumame D	anie	1	
Inventor's Signature								Date	
Residence: City	State			Cour	ntry	,	Citize	nship	
Missouri City	Texas	*			US			US	
Mailing Address	20200			<u> </u>					
3814 South Caulder	Way	·							
City	State				ZIP		Cour	itry	
Missouri City	Texas				77	459		US	
X Additional inventors or a legal re	epresentative are I	peing named on the	2	_supplem	ental s	heet(s) PTO/SB/02	A or 02LF	attached hereto.	

PTO/SB/02A (08-03)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ADDITIONAL INVENTOR(S)

DECLARATION		Supplemental Sheet Page 3 of 4							
Name of Additional Joint Inventor, if any:		A per	tition h	nas been filed for this	unsigned inv	entor			
	_	Family Nan							
Given Name (first and middle (if any) David S.			son						
Inventor's Signature		wes			Date				
Residence: City Pt. Worth	State 7	ľexas	Cou	ntry US	Citizenship	US			
Mailing Address 6366 Elm Crest Ct.									
Mailing Address									
City Ft. Worth	State	Texas		Zip 76132	Country	US			
Name of Additional Joint Inventor, if any:	A petition has been filed for this unsigned inventor					entor			
Given Name (first and middle (if any)		Family Name or Sumame							
John L.		Bur	ba	111					
Inventor's Signature		Date							
Residence: City Boulder City	State	Nevada Country US			Citizenship US				
Mailing Address 803 Lake Hill Drive									
Mailing Address						<u></u>			
City Boulder City	State	Nevada		Zip 89005	Country	US			
Name of Additional Joint Inventor, if any:		□ A pe	tition	has been filed for this	unsigned inv	ventor			
Given Name (first and middle (if any)		Family Name or Surname							
Arthur S.		Dar	niel	s					
Inventor's Signature Cuther Sau)	Date		12/22/23					
Residence: City Rockaway	State	New Jes	rsey	Country US		Citizenship US			
Mailing Address 21 White Meadow Road									
Mailing Address			•			<u> </u>			
City Rockaway	State	New Je	rsey	7 _{7in} 07866	Country	υs			

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/02A (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ADDITIONAL INVENTOR(S)

<u>.</u>	Page Page Page							
Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor								
	iven Name (first and middle (if any)		Family Nar	ne or S	urname			
	Robert E.		Day	7is				
Inventor's Signature						Date		
Residence: City	Joshua	State 1	rexas .	Coun	ntry US	Citizenship	US	
Mailing Address	1225 N. Main							
Mailing Address								
City	Joshua	State	Texas		Zip 76058	Country	US	
Name of Addi	itional Joint Inventor, if any:		☐ A pe	itition h	as been filed for this	unsigned inv	entor	
· G				Family Name or	Sumame			
Inventor's Signature			Date				· · · · · · · · · · · · · · · · · · ·	
Residence: City		State			Country		Citizenship	
Mailing Address								
Mailing Address	·			_				
City	·	State			Zip	Country		
	itional Joint Inventor, if any:	•	□ A pe	etition h	nas been filed for this	unsigned inv	ventor -	
G		Family Name or Surname						
Inventor's Signature		·	Date					
Residence: City		State			Country	<u></u>	Citizenship	
Mailing Address								
Mailing Address			·		·			
City	e Zin			Country				

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Attorney Docket Number 012003-03 **ECLARATION FOR UTILITY OR** First Named Inventor Baker Ernest L. DESIGN COMPLETE IF KNOWN PATENT APPLICATION (37 CFR 1.63) 2 7 2004 Application Number 10/684,858 Filing Date Oct. 14, 2003 Declaration Declaration Submitted after Initial Submitted OR Art Unit Filing (surcharge (37 CFR 1.16 (e)) With Initial Filing **Examiner Name** required) I hereby declare that: Each inventor's residence, mailing address, and citizenship are as stated below next to their name. I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled: METHOD TO IMPROVE PERFORATING EFFECTIVENESS USING A UNIQUE MULTIPLE POINT INITIATED SHAPED CHARGE PERFORATOR (Title of the Invention) the specification of which is attached hereto OR X as United States Application Number or PCT International was filed on (MM/DD/YYYY) 10/14/2003 (if applicable). and was amended on (MM/DD/YYYY) Application Number 10/684,858 I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed. Certified Copy Attached? Foreign Filing Date: Priority **Prior Foreign Application** Country (MM/DD/YYYY) **Not Claimed** Yes No Number(s)

[Page 1 of 2] This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

DECLARATION — Utility or Design Patent Application

Direct all correspondence	e to: Custome	r Number:		OR X .C	orrespo	ondence address below		
Alama								
Name Yale	S. Finkle	**	•					
Address UNOC	AT.	:						
	Box 7600							
City			State			ZIP		
Brea				CA		92822-7600		
Country		Telephone		Fax				
US		714 577-2642		714 577-				
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.								
NAME OF SOLE OR FI	RST INVENTOR:	□ A pe	etition has	been filed for this	unsign	ed inventor		
Given Name				Family Name				
(first and middle [if any])	E	rnest L.		or Surname	Bake	r		
Inventor's Signature		******				Date		
Residence: City	State		Country		Citizer	nship		
Wantage	New Jer	sey	τ	s		US		
Mailing Address			. 13					
86 Crigger Road			ZI			Country		
City	State			7		US		
Wantage	New Jer	sey		77401				
NAME OF SECOND IN	VENTOR:	%.;	^	·	n filed f	for this unsigned inventor		
Given Name	`			Family Name or Surname				
(first and middle [if any]) <u>r</u>	David C.		D Contractic D	aniel			
Inventor's Signature			•			Date		
Residence: City	State		Country		Citize	nship		
Missouri City	Texas	•	US			US		
Mailing Address								
3814 South Cau	lder Way	÷						
City	State		ZIF	•	Coun	try		
Missouri City	Texas		. 7	7459		US		
X Additional inventors o	r a legal representative are	being named on the 2	supplemental	I sheet(s) PTO/SB/02/	or 02LR	attached hereto.		

PTO/SB/02A (08-03)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| ADDITIONAL INVENTOR(S)

	DECLARATION	Supplemental Sheet Page 3 of 4					
			Π A==	tition b	as been filed for this ur	reigned inve	entor
	onal Joint Inventor, if any:		T			nsigned inve	entor .
Giv	en Name (first and middle (if any)		Family Nar	ne or S	Surname	 	
]	David S.		Wes	SOD			
Inventor's Signature		· ·				Date	
Residence: City	Ft. Worth	State :	Texas	Coun	ntry US C	Citizenship	US
Mailing Address	6366 Elm Crest Ct.						
Mailing Address							
	Ft. Worth	State	Texas		Zip 76132	Country	US
Name of Addit	ional Joint Inventor, if any:		☐ A pe	tition h	as been filed for this ur	nsigned inv	entor
Giv	ven Name (first and middle (if any)				Family Name or S	umame	
	John L.		Bu	;ba) :	11/t		
Inventor's Signature			Date	for	In Delle	12/9/	105
Residence: City	Boulder City	State	Nevada	1	Country US		Citizenship US
Mailing Address	803 Lake Hill Drive						
Mailing Address							
	Boulder City	State	Nevada		Zip 89005	Country	US
Name of Addit	ional Joint Inventor, if any:		□ Ape	etition h	nas been filed for this u	nsigned inv	rentor
Giv	en Name (first and middle (if any)				Family Name or St	urname	
	Arthur S.		Dai	niel	s		
Inventor's Signature	·	_	Date				
Residence: City	Rockaway	State	New Je	rsey	Country US		Citizenship US
Mailing Address	21 White Meadow Road						
Mailing Address							
City	Rockaway	State	New Je	rsey	_{Zip} 07866	Country	US

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/02A (08-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ADDITIONAL INVENTOR(S)

DECLARATION				Supplemental Sheet Page 4 of 4				
Nome of Artist	tional laint layerter if any		A petition has been filed for this unsigned inventor					
	tional Joint Inventor, if any:		T					
<u> </u>	iven Name (first and middle (if any)		Family Nam		sumame			
	Robert E.		Day	ris_	1			
Inventor's Signature						Date		
Residence: City	Joshua	State !	<u> Pexas</u>	Cour	ntry US	Citizenship	US	
Mailing Address	1225 N. Main							
Mailing Address	And the second s					-		
City	Joshua	State	Texas		Zip 76058	Country	US	
Name of Addi	tional Joint Inventor, if any:		☐ A pe	tition h	nas been filed for this	unsigned inv	entor	
G	iven Name (first and middle (if any)				Family Name or	Sumame		
Inventor's Signature			Date					
Residence: City		State			Country		Citizenship	
Mailing Address					· · · · · · · · · · · · · · · · · · ·			
Mailing Address				····			<u></u>	
City		State			Zip	Country		
Name of Add	itional Joint Inventor, if any:		☐ A pe	tition I	nas been filed for this	unsigned inv	entor	
G	iven Name (first and middle (if any)		Family Name or Surname					
Inventor's Signature			Date				<u></u>	
Residence: City		State			Country		Citizenship	
Mailing Address					· .			
Mailing Address						1		
City		State)		Zip	Country		

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/01 (08-03)
Approved for use through 07/31/2006. OMB 0651-0032
rademark Office; U.S. DEPARTMENT OF COMMERCE

CLIP Kilder the Paperwork Reduction Act of 1995, no persons are required to re	spond to a collection of information	unless it contains a valid OMB control number.				
DECLARATION FOR UTILITY OR	First Named Inventor	012003-03 Ernest L. Baker				
PATENT APPLICATION	COMPLETE IF KNOWN					
PATENT APPLICATION (37 CFR 1.63) Declaration Declaration Declaration Declaration Declaration	Application Number	10/684,858				
Declaration Submitted OR Submitted after Initial	Filing Date	Oct. 14, 2003				
Submitted OR Submitted after Initial With Initial Filing (surcharge Filing (37 CFR 1.16 (e))	Art Unit					
required)	Examiner Name					
I hereby declare that: Each inventor's residence, mailing address, and citizenship and I believe the inventor(s) named below to be the original and fit which a patent is sought on the invention entitled:						
METHOD TO IMPROVE PERFOUSING A UNIQUE MULTIPLE POINT INIT						
	· · · · · · · · · · · · · · · · · · · ·					

METHOD TO IMPROVE PERFORATING EFFECTIVENESS USING A UNIQUE MULTIPLE POINT INITIATED SHAPED CHARGE PERFORATOR									
ODING A UK									
			(Title of the In						
the specification of wh	ich		(110 01 11.0 111						
is attached he									
OR									
x was filed on (M	IM/DD/YYYY	n 10	0/14/2003	as Unite	ed States Ap	plication Nu	mber or PC	CT Internation	
Application Number 10/684,858 and was amended on (MM/DD/YYYY) (if ap						(if applicabl			
I hereby state that I had amended by any ame	ave reviewed	d and under	stand the contents o	f the abov	e identified	specification	, including	the claims, a	
I acknowledge the decontinuation-in-part a	I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.								
I hereby claim foreig inventor's or plant bre country other than the application for patent, before that of the app	n priority be eeder's rights e United Stat , inventor's o	nefits unde s certificate tes of Amer or plant bree	r 35 U.S.C. 119(a)- (s), or 365(a) of any ica, listed below and eder's rights certificate	(d) or (f), PCT intel have also	or 365(b) o mational ap o identified b ny PCT inter	plication whi below, by che rnational app	ecking the blication ha	box, any fore ving a filing d	
Prior Foreign Appli Number(s)	cation	Country	Foreign Filing (MM/DD/YYY			ority laimed	Certified (Copy Attach	

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

DECLARATION — Utility or Design Patent Application

Direct all correspon	idence to:	Custome	r Number:				OR X	orresp	ondence address below
Name			,-						
	ale S. F	inkle	÷,						
Address	NOCAL								
	P.O. Box	7600							
City					State				ZIP
•	3rea						CA		92822-7600
Country			Telephon	ie .			Fax		
т	JS		714 5	77-264	2		714 577-	-1230	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.									
NAME OF SOLE	OR FIRST IN	VENTOR:		\square_{A}	etition	has	been filed for this	unsiar	ned inventor
Given Name					<u> </u>		Family Name		
(first and middle [if	fany])	E	rnest I			i	or Surname	Bake	er
Inventor's									Date
Signature				Granda (
Residence: City		State		٠ شـ .	Cou	ntry		Citize	· •
Wantage		New Jer	sey			τ	JS		US
Mailing Address		<u> </u>							
.86 Crigger	Road				1.13				
City		State			·	ZII	0		Country
Wantage		New Jer	sey	. * * * • •		(7461		US
NAME OF SECO	ND INVENTO	DR:		· · · · · · · · · · · · · · · · · · ·	1] /	A petition has bee	n filed	for this unsigned inventor
Given Name							Family Name		
(first and middle [i	if any])	•	avid C	****		۱ ن	or Sumame	anie	1
Inventor's			Javiu C	<u>•</u>		1			Date
Signature									
Residence: City		State		· ,	Cou	intry		Citize	enship
Missouri Ci	i ty	Texas		<u> </u>		US		<u> </u>	US
Mailing Address									
3814 South	Caulder	Way		£.,				.,	
City		State				ZII	>	Cour	ntry
Missouri C	ity	Texas				7	7459		US
X Additional inve	entors or a legal	representative are	being named	on the 2	supple	menta	i sheet(s) PTO/SB/02/	A or O2LF	R attached hereto.

PTO/SB/02A (08-03)
Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page 3 of 4						
							···-	
Name of Addit	tional Joint Inventor, if any:	A pet	tition h	nas been filed for this t	unsigned inv	entor		
Gi	iven Name (first and middle (if any)		Family Nam	ne or S	Surname			
	Dayld S		Wes	SOR				
Inventor's Signature	Kolin)/-2	'/-0}	
Residence: City	Ft. Worth	State 1	l'exas	Cour	ntry US	Citizenship	US	
Mailing Address	6366 Blm Crest Ct.							
Mailing Address								
City	Ft. Worth	State	Texas		Zip 76132	Country	US	
Name of Addi	tional Joint Inventor, if any:		☐ A pe	tition h	nas been filed for this	unsigned inv	entor	
G		Family Name or Sumame						
		Burba III						
Inventor's Signature			Date					
Residence: City	Boulder City	State	Nevada	\prod	Country US		Citizenship US	
Mailing Address	803 Lake Hill Drive							
Mailing Address								
City	Boulder City	State	Nevada		Zip 89005	Country	US	
Name of Addi	itional Joint Inventor, if any:		☐ A pe	itition h	has been filed for this	unsigned inv	entor	
Gi	iven Name (first and middle (if any)		Family Name or Surname					
	Arthur S.		Dar	niel	s			
Inventor's Signature			Date					
Residence: City	Rockaway	State	New Jer	csey	Country US		Citizenship US	
Mailing Address	21 White Meadow Road							
Mailing Address								
City	Rockaway	State	New Jer	rsey	Zip 07866	Country	US	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a becounty

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a become by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are	e reguir	ed to res	U.S. Pate	nt and	d Trademark Office: U.S	ough 07/31/20	PTO/SB/02A (08-03) 06. OMB 0651-0032 NT OF COMMERCE DMB control number.	
DECLARATION				AL I	INVENTOR(S)		4 4	
						Page -		
Name of Additional Joint Inventor, if any:			A petition	on ha	as been filed for this	unsigned inv	entor	
Given Name (first and middle (if any)			Family Name	or S	umame			
Robert E.			Davi	s			<i>;</i> ,	
Inventor's Signature Toback	E) a. [1. Kal	urd			Date //	4/03	
Residence: City Joshua		State !	rexas (Count	try US	Citizenship	US	
Mailing Address 1225 N. Main						· ·	·	
Mailing Address								
City Joshua		State Texas Zip 7605 8				Country	US	
Name of Additional Joint Inventor, if any: A petition has been file						unsigned inv	entor	
Given Name (first and middle (if any)	Family Name or Surname							
Inventor's Signature			Date					
Residence: City		State	•		Country		Citizenship	
Mailing Address								
Mailing Address		·						
City		State			Zip	Country		
Name of Additional Joint Inventor, if any:			☐ A petiti	ion ha	as been filed for this	unsigned in	rentor	
Given Name (first and middle (if any)			Family Name or Surname					
			_		-			
Inventor's Signature			Date					
Residence: City	_	State			Country		Citizenship	
Mailing Address								
Mailing Address								
City		State			Zin	Country		

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS. TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.